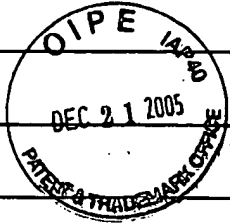
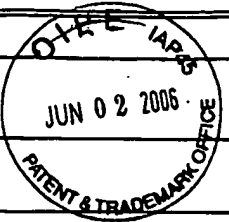


Sheet 1 of 1		INFORMATION DISCLOSURE STATEMENT					
FORM PTO 1449 (modified)  U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE  LIST OF REFERENCES CITED BY APPLICANT(S) (Use several sheets if necessary)  Date Submitted to PTO: December 21, 2005				ATTY DOCKET NO. 2000_1727		SERIAL NO. 09/740,068	
				APPLICANT Mitsuaki OSHIMA			
				FILING DATE December 20, 2000			
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
/RC/	AA	4,597,090	6-24-86	Forney, Jr.			
/RC/	AB	4,077,021	2-28-78	Csajka et al.			
/RC/	AC	2005/0084750	4-21-05	Wang et al.			
/RC/	AD	2005/0058633	3-17-05	Epstein et al.			
/RC/	AE	2005/0922922					
/RC/	AF	4,918,437	4-17-90	Jasinski et al.			
/RC/	AG	5,023,889	6-11-91	Divsalar et al.			
/RC/	AH	5,063,452	11-5-91	Higurashi			
/RC/	AI	5,124,852	6-23-92	Suwa et al.			
/RC/	AJ	5,136,380	8-4-92	Cho			
/RC/	AK	5,146,335	9-8-92	Kim et al.			
/RC/	AL	5,148,422	9-15-92	Sako et al.			
/RC/	AM	5,218,436	6-8-93	Sugiyama et al.			
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/RC/	AN	2627574	7-21-04	CN			
/RC/	AO	1529838	5-11-05	EP			abstract
/RC/	AP	1499725	5-26-04	CN			only abstract
/RC/	AQ	2004-159207	6-3-04	JP			corresponds to AP
/RC/	AR	1528854	5-11-05	EP			only abstract
/RC/	AS	52118	12-16-02	UA			only abstract
/RC/	AT	1569334	1-26-05	CN			
OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)							
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EXAMINER				/Robert Chevalier/			
				DATE CONSIDERED 04/22/2009			

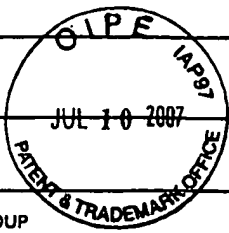
\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include cop. this form with next communication to applicant.

Sheet 1 of 1.		INFORMATION DISCLOSURE STATEMENT						
FORM PTO 1449 (modified)  U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE  LIST OF REFERENCES CITED BY APPLICANT(S) (Use several sheets if necessary )  Date Submitted to PTO: June 2, 2006			ATTY DOCKET NO. 2000_1727		SERIAL NO. 09/740,068			
			APPLICANT Mitsuaki OSHIMA					
			FILING DATE December 20, 2000		GROUP 2615			
U.S. PATENT DOCUMENTS								
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
/RC/	AA	4,267,592	5-12-81	Craiglow				
/RC/	AB	4,601,045	7-15-86	Lubarsky				
/RC/	AC	4,912,706	3-27-90	Eisenberg et al.				
/RC/	AD	4,914,655	4-3-90	Johannes et al.				
/RC/	AE	5,018,198	5-21-91	Takahashi				
/RC/	AF	4,003,002	1-11-77	Snijders et al.				
/RC/	AG	4,053,713	10-11-77	Nitadori				
	AH							
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	AK							
	AL							
	AM							
	AN							
OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)								
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EXAMINER				/Robert Chevalier/				
				DATE CONSIDERED 04/22/2009				

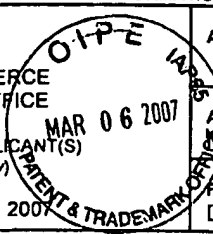
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Sheet 1 of 1		INFORMATION DISCLOSURE STATEMENT					
FORM PTO 1449 (modified)  U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE  LIST OF REFERENCES CITED BY APPLICANT(S) <i>(Use several sheets if necessary)</i>  Date Submitted to PTO: August 5, 2008				ATTY DOCKET NO. 2000_1727		SERIAL NO. 09/740,068	
				APPLICANT Mitsuaki OSHIMA			
				FILING DATE December 20, 2000		GROUP 2615	
U.S. PATENT DOCUMENTS							
* EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
/RC/	AA	5,706,428	1-6-98	Boer et al.			
/RC/	AB	6,526,264	2-25-03	Sugar et al.			
/RC/	AC	5,950,124	9-7-99	Trompower et al.			
/RC/	AD	6,977,944	12-20-05	Brockmann et al.			
/RC/	AE	7,352,822	4-1-08	Oshima			
/RC/	AF	7,362,813	4-22-08	Oshima			
/RC/	AG	7,158,577	1-2-07	Oshima			
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/RC/	CB	U.S. Office Action issued <u>June 24, 2008</u> in U.S. Application Serial No. <u>11/905,978</u>					
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EXAMINER				DATE CONSIDERED			
/Robert Chevalier/				04/22/2009			

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Sheet 1 of 1		INFORMATION DISCLOSURE STATEMENT					
FORM PTO 1449 (modified)  U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE  LIST OF REFERENCES CITED BY APPLICANT(S) <i>(Use several sheets if necessary)</i>  Date Submitted to PTO: July 10, 2007				ATTY DOCKET NO. 2000_1727		SERIAL NO. 09/740,068	
							
				APPLICANT Mitsuaki OSHIMA			
				FILING DATE December 20, 2000		GROUP 2615	
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/RC/	AA	4,882,725	11-21-89	Noda et al.			
/RC/	AB	4,985,769	1-15-91	Yasumoto et al.			
/RC/	AC	5,276,507	1-4-94	Uwabata et al.			
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/RC/	AJ	60-24753	2-7-85	Japan			partial & abstract
/RC/	AK	2-278940	11-15-90	Japan			partial & abstract
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	AN						
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EXAMINER				/Robert Chevalier/  DATE CONSIDERED 04/22/2009			

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Sheet 1 of 1		INFORMATION DISCLOSURE STATEMENT					
FORM PTO 1449 (modified)  U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE  LIST OF REFERENCES CITED BY APPLICANT(S) (Use several sheets if necessary)  Date Submitted to PTO: March 6, 2007		ATTY DOCKET NO. 2000_1727		SERIAL NO. 09/740,068			
		APPLICANT Mitsuaki OSHIMA				FILING DATE December 20, 2000	
Date Submitted to PTO: March 6, 2007		GROUP 2615					
U.S. PATENT DOCUMENTS							
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
/RC/	AA	5,210,770	5-11-93	Rice			
/RC/	AB	5,519,730	5-21-96	Jasper et al.			
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FOREIGN PATENT DOCUMENTS							
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/RC/	AJ	3-13145	1-22-91	Japan			abstract
/RC/	AK	4-322592	11-12-92	Japan			abstract
/RC/	AL	63-253738	10-20-88	Japan			abstract
/RC/	AM	62-502932	11-19-87	Japan			abstract
/RC/	AN	58-107740	6-27-83	Japan			abstract
OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)							
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	AP						
	AQ						
EXAMINER				DATE CONSIDERED			
/Robert Chevalier/				04/22/2009			

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Sheet 1 of 2		<b>INFORMATION DISCLOSURE STATEMENT</b>					
FORM PTO 1449 (modified)		ATTY DOCKET NO. 2000_1727				SERIAL NO. 09/740,068	
U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		APPLICANT Mitsuaki OSHIMA					
LIST OF REFERENCES CITED BY APPLICANT(S) (Use several sheets if necessary)		FILING DATE December 20, 2000				GROUP 2615	
Date Submitted to PTO: March 23, 2005							
<b>U.S. PATENT DOCUMENTS</b>							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
/RC/	AA	3,824,548	7-16-74	Sullivan et al.			
/RC/	AB	3,959,726	5-25-76	Hinoshita et al.			
/RC/	AC	4,303,939	12-1-81	Stephens et al.			
/RC/	AD	4,303,941	12-1-81	Marti et al.			
/RC/	AE	4,309,726	1-5-82	Tanaka et al.			
/RC/	AF	4,535,352	8-85	Haskell			
/RC/	AG	4,564,858	1-14-86	Resch			
/RC/	AH	4,581,639	4-8-86	Judge			
/RC/	AI	4,769,819	9-6-88	Matsutani et al.			
/RC/	AJ	4,794,447	12-27-88	Tsinberg			
/RC/	AK	4,800,426	1-24-89	Glenn			
/RC/	AL	4,817,192	3-28-89	Phillips et al.			
/RC/	AM	5,007,088	4-9-91	Ooi et al.			
/RC/	AN	5,029,003	7-91	Jonnalagadda			
/RC/	AO	5,134,464	7-28-92	Basile et al.			
<b>FOREIGN PATENT DOCUMENTS</b>							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
/RC/	AP	3-48587	3-1-91	Japan			abstract
<b>OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)</b>							
/RC/	AQ	Masafumi SAITO et al., "Bit Error Rate Characteristics of OFDM in Multipath Environment", 1991					
/RC/	AR	Ryutaro OHMOTO et al., " $\pi/4$ -shift QPSK Subcarrier Transmission", 1991					
EXAMINER /Robert Chevalier/				DATE CONSIDERED 04/22/2009			

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Sheet 2 of 2		INFORMATION DISCLOSURE STATEMENT					
FORM PTO 1449 (modified)  U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE  LIST OF REFERENCES CITED BY APPLICANT(S) <i>(Use several sheets if necessary)</i>  Date Submitted to PTO: March 23, 2005				ATTY DOCKET NO. 2000_1727		SERIAL NO. 09/740,068	
				APPLICANT Mitsuki OSHIMA			
				FILING DATE December 20, 2000		GROUP 2615	
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
/RC/	AA	5,181,112	1-19-93	Citta et al.			
/RC/	AB	5,214,656	5-25-93	Chung et al.			
/RC/	AC	5,218,622	6-8-93	Fazel et al.			
/RC/	AD	5,377,051	12-27-94	Lane et al.			
/RC/	AE	5,400,084	3-21-95	Scarpa			
/RC/	AF	5,561,468	10-1-96	Bryan et al.			
/RC/	AG	5,576,902	11-19-96	Lane et al.			
/RC/	AH	5,598,220	1-97	Citta et al.			
	AI						
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
/RC/	AJ	5-327807	12-10-93	Japan			abstract
/RC/	AK	7-264148	10-13-95	Japan			abstract
/RC/	AL	7-322219	12-8-95	Japan			abstract
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	AN						
OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)							
	AO						
	AP						
	AQ						
EXAMINER				DATE CONSIDERED			
/Robert Chevalier/				04/22/2009			

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## INFORMATION DISCLOSURE STATEMENT

FORM PTO 1449 (modified)

U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICEATTY DOCKET NO.  
2000\_1727SERIAL NO.  
09/740,068APPLICANT  
Mitsuaki OSHIMAFILING DATE  
December 20, 2000GROUP  
2615LIST OF REFERENCES CITED BY APPLICANT(S)  
(Use several sheets if necessary)

Date Submitted to PTO: April 14, 2005

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
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## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
	AJ						
	AK						
	AL						
	AM						
	AN						

## OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)

/RC/	AO	J. A. C. Bingham, "Multicarrier Modulation for Data Transmission: An Idea Whose Time Has Come", IEEE Communications Magazine, Vol. 28, May 1990, pages 5-8 and 11-14
/RC/	AP	B. Hirosaki, "An Orthogonally Multiplexed QAM System Using the Discrete Fourier Transform", IEEE Transactions on Communications, Vol. Com-29, No. 7, July 1981, pages 982-989
/RC/	AQ	L. J. Cimini, Jr., "Analysis and Simulation of a Digital Mobile Channel Using Orthogonal Frequency Division Multiplexing", IEEE Transactions on Communications, Vol. Com-33, No. 7, July 1985, pages 665-675 and Annex

EXAMINER

/Robert Chevalier/

DATE CONSIDERED

04/22/2009



Sheet 1 of 1

FORM PTO 1449 (modified)

U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICELIST OF REFERENCES CITED BY APPLICANT(S)  
(Use several sheets if necessary)

Date Submitted to PTO: August 24, 2004

ATTY DOCKET NO.  
2000\_1727SERIAL NO.  
09/740,068APPLICANT  
Mitsuaki OSHIMAFILING DATE  
December 20, 2000GROUP  
2615

## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
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## FOREIGN PATENT DOCUMENTS

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AL	AJ	2-154583	6-13-90	Japan			abstract
	AK						
	AL						
	AM						
	AN						

## OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)

AL	AO	Shigeki MORIYAMA et al., "Delay Propagation Characteristics at VHF and UHF bands in Urban Area", 1991 Spring National Convention Record, The Institute of Electronics, Information and Communication Engineers, Part 2, p. 406, March 15, 1991
AL	AP	Yasuhiro ITO et al., "Adaptive Weighted Code Division Multiplexing (AW-CDM) Transmission System for Terrestrial Digital Television Broadcasting", ITE Technical Report Vol. 17, No. 13, pp 27-32, February 25, 1993
	AQ	

EXAMINER

Robert Ch. al

DATE CONSIDERED

3/1/05

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